Lab Volume mount

Create a pv

mkdir /mnt/data

kubectl create -f pv.yaml

apiVersion: v1

kind: PersistentVolume

metadata:

name: pv-volume-2

labels:

type: local

spec:

storageClassName: manual

capacity:

storage: 1Gi

accessModes:

- ReadWriteOnce

hostPath:

path: "/mnt/data"

apiVersion: argoproj.io/v1alpha1

kind: Workflow

metadata:

  generateName: volumes-pvc-

  namespace: argo

spec:

  entrypoint: volumes-pvc-example

  serviceAccountName: training

  volumeClaimTemplates:           # define volume, same syntax as k8s Pod spec

  - metadata:

      name: workdir                     # name of volume claim

    spec:

storageClassName: manual

      accessModes: [ "ReadWriteOnce" ]

      resources:

        requests:

          storage: 1Gi                  # Gi => 1024 \* 1024 \* 1024

  templates:

  - name: volumes-pvc-example

    steps:

    - - name: generate

        template: whalesay

    - - name: print

        template: print-message

  - name: whalesay

    container:

      image: docker/whalesay:latest

      command: [sh, -c]

      args: ["echo generating message in volume; cowsay hello world | tee /mnt/vol/hello\_world.txt"]

      # Mount workdir volume at /mnt/vol before invoking docker/whalesay

      volumeMounts:                     # same syntax as k8s Pod spec

      - name: workdir

        mountPath: /mnt/vol

  - name: print-message

    container:

      image: alpine:latest

      command: [sh, -c]

      args: ["echo getting message from volume; find /mnt/vol; cat /mnt/vol/hello\_world.txt"]

      # Mount workdir volume at /mnt/vol before invoking docker/whalesay

      volumeMounts:                     # same syntax as k8s Pod spec

      - name: workdir

        mountPath: /mnt/vol